(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 27 January 2005 (27.01.2005)

(10) International Publication Number WO 2005/007560 A3

(51) International Patent Classification7: 1/12, 1/08

B67D 1/04,

(21) International Application Number:

PCT/NL2004/000513

(22) International Filing Date:

15 July 2004 (15.07.2004)

(25) Filing Language:

Dutch

(26) Publication Language:

English

(30) Priority Data: 1023968

21 July 2003 (21.07.2003)

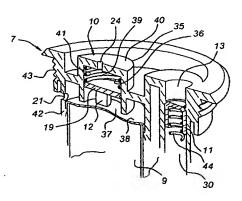
- (71) Applicant (for all designated States except US): HEINEKEN TECHNICAL SERVICES B.V. [NL/NL]; Burgemeester Smeetsweg 1, NL-2382 PH Zoeterwoude (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): PAKKERT, Engbert, Hermannes [NL/NL]; Michiel de Ruiterweg 39,

NL-2628 BA Delft (NL). INNIKEL, Quintijn [NL/NL]; Beresteinseweg 76, NL-1217 TK Hilversum (NL).

- (74) Agent: VAN WESTENBRUGGE, Andries; Nederlandsch Octrooibureau, Scheveningseweg 82, P.O. Box 29720, NL-2502 LS The Hauge (NL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: PRESSURE REGULATOR FOR A CONTAINER FOR A CARBONATED DRINK



(57) Abstract: The invention relates to a container (1) for carbonated drink provided with a chamber (2) containing the drink, a drink dispensing opening (13) for drink from the chamber, a pressure medium chamber which pressure medium chamber (9) has an outlet (21) that is closed by a valve for delivering pressure medium and a pressure regulating element (10) connected to the valve for operating the valve, wherein the pressure regulating element has a housing (35) with an end wall (40), a peripheral wall (36) and a piston (19) that can be moved in the housing along the peripheral wall in a sealed manner, wherein an upper housing part (39) is formed between a side of the piston that faces the end wall and a lower housing part (37) that least partially surround the valve, is formed at the side of the piston facing away from the end wall, wherein the piston engages on the delivery valve and wherein the upper housing part of the housing is in fluid communication with a reference pressure source.

WO 2005/007560 A3



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

(88) Date of publication of the international search report: 2 June 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

Inte al Application No PCT/NL2004/000513

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B67D1/04 B67D1/12 B67D1/08 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 -B670 F16K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages Category ° 1-5, US 4 402 429 A (VANDEN DRIESSCHE JEAN R) X 8-11,13, _6_September 1983 (1983-09-06) 14,16,17 column 1, line 57 - line 65 column 2, line 39 - line 65; figures 1-5 1-3, 10,Χ US 3 024 800 A (CRISP LEWIS ERIC) 13,14 13 March 1962 (1962-03-13) column 4, line 41 - line 69; figures 3,4 13,14 PATENT ABSTRACTS OF JAPAN χ vol. 018, no. 090 (M-1560) 15 February, 1994 (1994-02-15) & JP 05 296397 A (NIPPON TANSAN GAS CO LTD), 9 November 1993 (1993-11-09) 1,7,16 Α abstract ÷ Patent family members are listed in annex. Further documents are listed in the continuation of box C. X Special categories of cited documents: "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the International "X" document of particular refevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled other means in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of malling of the International search report Date of the actual completion of the international search 14 03 2005 12 January 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Wartenhorst, F

INTERNATIONAL SEARCH REPORT

Intel and Application No
PCT/NL2004/000513

(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT tegory Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
US 2 134 852 A (BOGAN WILLIAM R) 1 November 1938 (1938-11-01)	15 1,12
·	

PCT/NL2004/000513

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
. This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Glaims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International-Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet As a result of the prior review under R. 40.2(e) PCT, no additional fees are to be refunded.
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority dld not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-6,8-11,13,14,16-18

Container wherein the chamber is provided with an activating member.

2. claim: 7

Container wherein the upper housing part comprises a cylindrical wall with screw thread and a cap comprising complementary screw thread.

3. claims: 12,15

Container comprising a dispensing line wherein the drink dispensing opening is located at a distance from the centre line of the chamber.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Inte al Application No
PCT/NL2004/000513

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 4402429	A	06-09-1983	FR	2411798 A1	13-07-1979
			<u>au</u> Be	514191 B2	29-01-1981
				872859 A1	19-06-1979
			CA	1116565 A1	19-01-1982
			DE	2852946 A1	21-06-1979
			DE	7836263 U1	29-03-1979
			ES	476131 A1	16-05-1979
			GB	2010977 A ,B	04-07-1979
			IT	1160339 B [*]	11-03-1987
			JP	54094115 A	25-07-1979
			JP	581309 9 7 U	03-09-1983
			NL	7811901 A	21-06-1979
US 3024800	Α	13-03-1962	NONE		
JP 05296397	Α	09-11-1993	JP	3258701 B2	18-02-2002
US 2134852	Α	01-11-1938	NONE		